

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2004/002184

A. CLASSIFICATION OF SUBJECT MATTER

IPC⁷ C08L 63/00, C01B 33/44, C08K 3/34

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC⁷ C08L 63/00, C01B 33/44, C08K 3/34

Documentation searched other than minimum documentation to the extent that such documents are included in the fields

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms
STN CAPLUS, REGISTRY

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant	Relevant to claim No(s).
X Y	LIU, WEIPING et al, Organoclay modified high performance epoxy, 48 th International SAMPE Symposium, 11-15 May 2003, Book 1, pages 142-154, ISSN 0891-0138 the whole document	1-6, 8-12, 20-23, 25 13, 24, 26
Y	US 6107387 A (KAYLO, ALAN J. et al) 22 Aug. 2000 (2000-08-22) the whole document	1, 2, 4, 5, 11, 12, 26
Y	US 2003/0039812 A1 (TSAI, TSUNG-YEN et al) 27 Feb. 2003 (2003-02-27) the whole document	1, 2, 4, 5, 11, 12, 26

☒ Further documents are listed in the continuation of Box C. ☒ See patent family annex.

* Special categories of cited documents :
 "A" document defining the general state of the art which is not considered
 to be of particular relevance
 "E" earlier application or patent but published on or after the international
 filing date
 "L" document which may throw doubt on priority claim(s) or which is
 cited to establish the publication date of another citation or other
 special reason (as specified)
 "O" document referring to an oral disclosure, use, exhibition or other
 means
 "P" document published prior to the international filing date but later than
 the priority date claimed

"T" later document published after the international filing date or
 priority date and not in conflict with the application but cited
 to understand the principle or theory underlying the invention
 "X" document of particular relevance; the claimed invention cannot
 be considered novel or cannot be considered to involve an
 inventive step when the document is taken alone
 "Y" document of particular relevance; the claimed invention cannot
 be considered to involve an inventive step when the document
 is combined with one or more other such documents, such
 combination being obvious to a person skilled in the art
 "&" document member of the same patent family

Date of the actual completion of the international search

8 March 2005 (08-03-2005)

Date of mailing of the international search report

04 May 2005 (04-05-2005)

Name and mailing address of the ISA/CA
 Canadian Intellectual Property Office
 Place du Portage I, C114 - 1st Floor, Box PCT
 50 Victoria Street
 Gatineau, Quebec K1A 0C9

Facsimile No: 001(819)953-2476

Authorized officer

Tony F. Neppel (819) 997-2890

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/CA2004/002184

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No(s).
Y	EP 1038913 A1 (AMCOL INTERNATIONAL CORP.) 27 Sep. 2000 (2000-09-27) the whole document	4, 5, 26
Y	LEBARON, PETER C. et al, Polymer-layered silicate nanocomposites, Applied Clay Science 1999, Vol. 15, pages 11-29 ISSN 0169-1317 the whole document	11, 12
Y	GAM, K. T. et al, Fracture behavior of core-shell rubber-modified clay-epoxy, Polymer Engineering and Science, October 2003, Vol. 43, No.10, pages 1635- 1645 ISSN 0032-3888 the whole document	11, 13, 24

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.
PCT/CA2004/002184

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
US6107387	22-08-2000	AU3239500 A WO0048942 A1	04-09-2000 24-08-2000
US2003039812	27-02-2003	DE10157937 A1 TW523532 B US6548159 B2	27-02-2003 11-03-2003 15-04-2003
EP1038913	27-09-2000	CA2218303 A1 CA2218356 A1 CA2223350 A1 CA2299705 A1 EP0846660 A2 EP0846661 A2 EP0846662 A2 JP10194727 A JP10273314 A JP11060983 A JP2000297203 A MXPA00002760 A US5952095 A US6057396 A US6124365 A US6242500 B1 US6251980 B1	06-06-1998 06-06-1998 06-06-1998 19-09-2000 10-06-1998 10-06-1998 10-06-1998 28-07-1998 13-10-1998 05-03-1999 24-10-2000 24-04-2002 14-09-1999 02-05-2000 26-09-2000 05-06-2001 26-06-2001